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6. (amended) The photoresist composition of claim 5 wherein the carbon alicyclic group comprises a photoacid-labile group.⁴

7. (amended) A photoresist composition of claim 1 wherein the polymer comprises a heteroalicyclic group in addition to the carbonate or lactone.

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9. (amended) The photoresist composition of claim 8 wherein the additional heteroalicyclic group has a non-hydrogen ring substituent.

10. (amended) The photoresist composition of claim 1 wherein the polymer comprises a photoacid-labile group that is a substituent of an additional heteroalicyclic polymer group or a carbon alicyclic polymer group.

11. (amended) The photoresist composition of claim 1 wherein the polymer comprises a photoacid-labile moiety of a polymer unit separate a carbonate, lactone or carbon alicyclic unit.

12. (amended) The photoresist composition of claim 1 wherein the polymer comprises a polymerized acrylate that comprises a photoacid-labile moiety.

13. (amended) The photoresist composition of claim 1 wherein the polymer further comprises anhydride units.

14. (amended) The photoresist composition of claim 1 wherein the polymer further comprises maleic anhydride units.

15. (amended) The photoresist composition of claim 1 wherein the polymer is a terpolymer.